



Making America chip-ready.

*The training ground for the engineers of the American century —
semiconductors, AI, robotics, quantum.*

01 / THE STAKES

The shortage isn't silicon. It's **people.**

12%

U.S. SHARE OF GLOBAL CHIP
FABRICATION – DOWN FROM 37% IN 1990

67K

U.S. SEMICONDUCTOR JOBS AT RISK
OF GOING UNFILLED BY 2030

1M+

ADDITIONAL SKILLED WORKERS
NEEDED WORLDWIDE BY 2030

02 / THE FRONTIER

A Kennedy "moon in ten years" moment — and we're losing the lead.

America misplaced some of its frontier spirit. That spirit now lives at the bleeding edge — **chips, robotics, AI, quantum** — the defining competitive differentiator of the century. The good news is the rarest kind: a problem big enough to matter, and tractable enough that philanthropy can move it.

03 / WHY IT PERSISTS

The system wasn't built for this **speed.**

↳ Curricula lag the industry by years

The fab opening in 2026 needs skills the catalog won't list until 2030.

↳ The new careers aren't taught anywhere

Robotics, advanced packaging, hardware security, AI-driven design — no map exists.

↳ Access is uneven, regional, and expensive

World-class training is locked to a handful of research campuses.

04 / WHAT WE'RE BUILDING

A Khan Academy for the frontier — and **more.**

01 The Open Academy

World-class education in chips, robotics, quantum, and space — free to anyone. This knowledge shouldn't be paywalled.

02 The AI Platform

Personalized learning and curriculum that meets each person where they are — and maps the careers no university teaches yet.

03 Learning how to learn

The technology underneath that makes mastery dramatically faster — the part we care about most.

05 / THE DIFFERENTIATOR

We teach people **how to learn.**

Most people don't fail to learn because the material is too hard. They fail because no one ever built them something that made **starting** feel possible. So we engineer for what actually gates learning — focus, retention, and the **mood, readiness, and ambition** to begin. Anyone can host videos. Almost no one builds the mind that watches them.

06 / THE ASCENT

Novice to pioneer. Proven by a job.

- 01 Novice
- 02 – 03 Advanced Beginner · Competent
- 04 – 05 Proficient · Expert
- 06 – 07 **Master · Pioneer**

A personalized trajectory, an AI companion that tracks **readiness**, and real industry work – ending not in a certificate, but a **placement**.

07 / THIS IS ALREADY REAL

Not a whiteboard. A coalition.

- ▮ Named partner in **PINES** — a federal Regional Node, 9 states / 31 institutions
- ▮ A **federal subaward** + a **SEMI Foundation** curriculum grant
- ▮ Endorsed by **Sens. Cantwell & Murray, Rep. DelBene**
- ▮ Anchored by **Micron's** ~\$200B U.S. build-out
- ▮ A donated **50-module curriculum** across the full value chain
- ▮ Founding team out of **Amazon & Microsoft**

08 / THE ASK

\$5M to **finish it.**

The raise doesn't buy buildings — it builds the **engine**: the AI platform, the learn-how-to-learn technology, and the first sponsored cohorts. Founding partners help shape the institution — its curriculum, its cohorts, and the first claim on the talent we create. A 501(c)(3); **your gift is tax-deductible.**



**Give America back its
frontier — one ready
mind at a time.**

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